



ABSTRACT OF THE DISCLOSURE

9 A process and an apparatus for an aerobic biological treatment of aqueous organic wastes, in which the aqueous organic waste is supplied to ⁹²~~the~~ aeration tank for an aerobic biological treatment in the presence of a biosludge composed essentially of aerobic microorganisms. ^{The}~~the~~ aerated aqueous suspension in the aeration tank is subjected to solid/liquid separation, the so-separated liquid phase is ^{removed}~~exhausted~~ as ~~the~~ treated water, at least a portion of the separated sludge is recycled to the aeration tank, a part of the aqueous suspension in the aeration tank or of the separated sludge is treated with ozone at a pH of 5 or lower, and the ozonized suspension or sludge is recycled to the step of aerobic biological treatment. ^{The}~~whereby the~~ biosludge is transformed into BOD components using a decreased amount of ozone to thereby decrease the amount of excess sludge and, in some cases, even ^{reduce it}~~to~~ zero.

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